

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 80-32

ORDER REQUIRING THE VALLEJO SANITATION AND FLOOD  
CONTROL DISTRICT FROM DISCHARGING WASTES CONTRARY  
TO REQUIREMENTS PRESCRIBED BY THE CALIFORNIA REGIONAL  
WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION

The California Regional Water Quality Control Board, San Francisco Bay  
Region, (hereinafter Board) finds:

1. The Vallejo Sanitation and Flood Control District, hereinafter referred to as the discharger, owns and operates a physical-chemical wastewater treatment plant located in Vallejo. The plant treats municipal and industrial wastewater from the Vallejo area and discharges the treated wastewater to Carquinez Strait, a water of the United States.
2. The Board, on September 20, 1977, adopted Order No. 77-112, an Enforcement Order for Issuance of a Time Schedule to complete all construction necessary for compliance by January 1978.
3. The Board, on June 20, 1978, adopted Order No. 78-44 (NPDES Permit No. CA0037099) re-issuing waste discharge requirements to the District and establishing a compliance time schedule to require full compliance with the effluent limitations and all other provisions of the Permit by October 1, 1978.
4. The Executive Officer, on October 4, 1979, issued Cleanup and Abatement Order 79-012 requiring full compliance by February 1, 1980.
5. The discharger has failed to achieve full compliance with the effluent limitations contained in Order No. 78-44. Since October 1, 1978, the discharger has failed to comply with the following waste discharge requirements contained in said Order:

"A. Effluent Limitations

1. The discharge of Waste 001 in excess of the following limits is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>7-Day Average</u>	<u>30-Day<sup>1/</sup> Average</u>	<u>Maximum Daily 2/</u>	<u>Instan- taneous Maximum</u>
a. Settleable Matter	ml/l-hr	--	0.1	--	0.2
b. BOD	mg/l	45	30	60	--
	lbs/day	--	4260	17,000	--
	kg/day	--	1930	7,720	--

<u>Constituents</u>	<u>Units</u>	<u>7-Day Average</u>	<u>30-Day<sup>1/</sup> Average</u>	<u>Maximum<sup>2/</sup> Daily</u>	<u>Instantaneous Maximum</u>
c. Suspended Solids	mg/l	45	30	60	—
	lbs/day	—	4260	17,000	—
	kg/day	—	1930	7,720	—
...					
e. Chlorine Residual	mg/l	—	—	—	0.0

<sup>1/</sup>Mass emission rates based on a average monthly flow of 17 mgd.

<sup>2/</sup>Mass emission rates based on a maximum daily flow of 34 mgd.

2. The arithmetic mean of the biochemical oxygen demand (5-day, 20°C) and suspended solids values, by weight, for effluent samples collected in a period of 30 consecutive calendar days shall not exceed 15 percent of the arithmetic mean of the respective values, by weight, for influent samples collected approximately the same times during the same period (85 percent removal).
3. The pH of the discharge shall not exceed 9.0 nor be less than 6.0.
4. In any representative set of samples from the treatment plants before dilution, the waste as discharged shall meet the following limit of quality:

#### TOXICITY:

The survival of test organisms acceptable to the Board in 96-hour bioassays of the effluent shall achieve a 90 percentile value of not less than 50% survival.

...

6. The median value for the MPN of total coliform in any five (5) consecutive effluent samples shall not exceed 240 coliform organisms per 100 milliliters. Any single sample shall not exceed 10,000 MPN/100 ml when verified by a repeat sample taken within 48 hours."
6. The "Standard Provisions, Reporting Requirements and Definitions" dated April 1977 provide, in part, as follows:

#### "A. Standard Provisions:

...

6. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

..."

7. Reports from the discharger and Board staff inspections indicate that the discharger is in violation of or is threatening to violate the requirements and compliance dates listed in Findings 2, 3, 4 and 5 of this Order.
8. Said discharge has adversely affected and threatens to continue to adversely affect water quality in waters of the State.
9. The Board finds that this action is an order to enforce waste discharge requirements previously adopted by the Board. This action is therefore categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15121 of the Resources Agency Guidelines.
10. On June 17, 1980, the California Regional Water Quality Control Board, San Francisco Bay Region, after due notice, held a public hearing under the provisions of Water Code Sections 13301, 13385, and 13386 regarding the discharge of waste and pollutants by the Vallejo Sanitation and Flood Control District.

IT IS HEREBY ORDERED THAT the discharger cease and desist from discharging wastes contrary to requirements contained in Order No. 78-44 and listed in Findings 5 and 6 of this Order. Compliance shall be achieved according to the following specifications:

- A. The discharger shall comply with Effluent Limitations A.1.a (settleable solids), A.1.b (BOD), A.1.c (suspended solids), A.1.e (chlorine residual), A.4 (toxicity), and A.6 (coliform) of Order No. 78-44 according to the following time schedule:

<u>Task</u>	<u>Report Due</u>
1. Submit a detailed plan of operation for a study to determine the steps necessary to make the carbon adsorption system mechanically workable. Plan shall call for a phased study which will explore activities including repairing and re-vising existing upflow distributors, or replacing them with an alternate system, and removing solids from the influent to the carbon columns by additional processing. All eventualities shall be investigated concurrently to minimize time delay if the first procedure selected for implementation is not successful. Plan shall include estimate of cost and time of implementation of each eventuality.	August 1, 1980
2. Submit results of jar test including a statement on the optimum dosage of chemicals to be added to the primary treatment system.	July 15, 1980
3. Submit results of full scale plant operation with optimum dosage of chemicals to be added to the primary treatment system.	September 15, 1980

<u>Task</u>	<u>Report Due</u>
4. Submit completed documents, including plans, specifications, and estimated costs for the fabrication or purchase of equipment and supplies needed to add chemicals found optimum. Chemical addition must be flow-proportional.	October 15, 1980
5. Submit completed documents, including plans, specifications, and estimated costs for the modification of existing flocculating system, or fabrication or purchase of equipment necessary to provide reliable flocculation of the chemically treated wastewater	September 15, 1980
6. Submit completed documents, including plans, specifications, and estimated costs for the fabrication or purchase of equipment needed for flow proportional chemical addition to the carbon contactors as necessary to prevent sulfide formation.	August 30, 1980
7. Submit completed documents, including plans, specifications and estimated costs for the fabrication or purchase of equipment needed to dechlorinate the final effluent before discharge.	August 15, 1980
8. Submit certification that the dual media filter has been loaded with filter media not subject to being flushed out by routine backwashing.	September 15, 1980
9. Submit certification that the equipment specified in A.1 above have been ordered, or that plans for fabrication have been completed.	October 1, 1980
10. Submit certification that the equipment specified in A.4, A.5, A.6 and A.7 above have been ordered, or that plans for fabrication have been completed	November 1, 1980
11. Toxicity Study  Submit a report identifying the toxicants in the effluent, the extent to which each toxicant contributes to the total toxicity and the plan for corrective action.	August 1, 1980
12. Coliform Study  Submit a report identifying the causes of non-compliance with effluent coliform requirement and plan for corrective action.	August 1, 1980
13. Compliance with Standard Provisions A.6  Operate and maintain all treatment units as efficiently as possible forthwith.	

B. Provisions

1. The discharger is required to submit all the reports on progress toward compliance with this Order under penalty of perjury. If non-compliance or threatened non-compliance is reported, the reasons for non-compliance and an estimated compliance date shall be reported.
2. If the Executive Officer finds that the discharger has failed to comply with the provisions of this Order, he is authorized, after approval of the Board Chairman, to request the Attorney General to take the appropriate enforcement action against the discharger, including injunction and civil monetary remedies, if appropriate, or to schedule another Cease and Desist Order hearing to consider a restriction on additional connections.
3. If the Executive Officer determines that the provisions of this Order are violated and does not refer the matter to the Attorney General, he is instructed to report to the Board the reasons that the discharger has been unable to comply with the provisions of this Order.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 17, 1980.

FRED H. DIERKER  
Executive Officer